Sanitized Copy Approved for Release 2011/01/05 : CIA-RDP89B00709R000200420007-4 COPY / OF / June 29, 1959 Dear Dan: The enclosed Changed Purchase Orders are amendments which we have made to existing purchase orders and are your copies. The one to General Electric gives them half of the overrun funds as it is my intention not to give them the total overrun until July. Very truly yours, JBL:ej Encl. - Rev. 6/6/59, P.O. 100-8 Amend. #3, P.O. 100-13

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Please sign and return ack				LOCKHEED AIRC	RAFT CO	RPORATION	
Invoice in triplicate, sho numbers, if any, on all cop			rt and Government contract	Missiles and Space I	Division		
Taxes payable by Buyer to			ce. r and item numbers. MARK	<u> </u>			
PACKING LIST AND INV	OICE COVERIN	G FINAL SHIP	MENT "ORDER COMPLETED."				
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LOCKHEED AIRCRAFT CORPORATION MISSILE SYSTEMS DIVISION

Sunnyvale, California

CHANGED PURCHASE ORDER

1/2/59 PAGE OF NUMBER 100-8

REQUEST NO. 1085, 49196

General Electric Company 3198 Chestnut Street Philadelphia, Pennsylvania

TEM	QUANTITY	UNIT	DESCRIPTION	PRICE
			Cancel all Mark II, Mod II, parachutes and in lieu thereof direct all efforts to the production of Mark II Mod. III, parachutes.	,
			General Electric shall fabricate and deliver two (2) forebody dollies.	
			General Electric shall fine-gold plate to 10 micro inches eighteen (18) development and deliverable reconnaissance recovery vehicles.	
<i>\</i>	:-		Certain agreements were reached between General Electric MSVD and Lockheed MSD on 12 December 1958 which are attached hereto as Addendum No. 1 and made a part hereof.	
			** - Specification SP-128, Rev. No. 1, dated 3 October 1958, is applicable in its entirety with the following exceptions and modifications:	
			(a) Item 2.1 - should be amended to read:	
			IMSD 2916, General Environmental Specification for the WS-117L Equipment Program II with deviations as agreed to between IMSD and the subcontractor. The deviations used in the definitization of the SARV program and effective as of 9/19/58 shall be applicable to the program.	
			(b) Item 2.2 - should refer to the following:	
			ARV-1 Systems Requirement Specification for the Advanced Recovery Vehicle and associated ground support equipment - dated 19 December 1958.	
			(c) Item 2.3 should read as follows:	
			IMSD 6020C - Statement of Work, Biopmedical Recovery Capsule, where applicable. The deviations used in the definitization of the SARV program, and effective as of 9/19/58, shall be applicable to this program.	
			(d) On page 4, Table I, Ground Support Equipment.	
			Items 1 and 2, R/V Checkout Unit and R/V Simulator respectively, should both be reduced by one (1) unit from three (3) of each to two (2) of each deliverable units.	•

LOCKHEED AIRCRAFT CORPORATION MISSILE SYSTEMS DIVISION

Sunnyvale, California

CHANGED PURCHASE ORDER

Rev. 6/6/59 PAGE 7 NUMBER 100-8

REQUEST NO. B: 1085, 49196

General Electric Company 3198 Chestnut Street Philadelphia. Pennsylvania

4	QUANTITY	UNIT	DESCRIPTION	PRICE .
			Further, add Items 8 and 9.	
ļ			<u>Description</u> Quantity	
		•	8. R/V Checkout Unit Panels, Mark II 2	
			9. Dynamic Balance Unit	
			(e) The spare units which are indicated in the delivery schedule attached to SP-128, Rev. No. 1, should be reduced from two (2) to (1), which therefore, reduces the requirement from fourteen (14) to thirteen (13) flight units or flight unit spares, and is represented by the deletion of Use No. 114, formerly scheduled to be delivered on August 4, 1959.	
			*** Specification ARV-1, dated 19 December 1958, is applicable in its entirety with the following corrections:	·
			(a) Page 2 LMSD 2916, Revision dated April 30, 1958, should read:	
:			"as amended by agreement on 11/19/58."	
			(b) Page 5, paragraph 3.6.4, last sentence "insullation" should be "installation."	
			(c) Page 6, Paragraph 3.6.7.1, last sentence "versed" should be "reused."	
			(d) Page 7, paragraph 3.6.7.5, last sentence "excited" should be "exerted."	
	·		(e) Page 15, Figure 1 - does not show any drawing. This drawing should be the same as Figure 1 in N.C.S. 1500.	
		:	REPORTS	
			1. An informal monthly progress report, similar to an ozalid-type reproduction, shall be submitted on or before the 15th of each calendar month, reporting on the progress during the preceding calendar month.	
			2. A brief, informal monthly management report shall be submitted on or before the 15th of each calendar month, giving fund status including	

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LOCKHEED AIRCRAFT CORPORATION

MISSILE SYSTEMS DIVISION

Sunnyvale, California

CHANGED PURCHASE ORDER

DATE 1/2/59 PAGE OF NUMBER 100-8

B 1085, 49196

General Electric Company 3198 Chestnut Street Philadelphia, Pennsylvania

DELIVERY: Re=entry capsules shall be delivered in accordance with the following schedule: USE NO. DELIVERY DATE February 9, 1959 102 February 16, 1959 103 February 26, 1959 104 March 11, 1959 105 March 24, 1959 106 April 6, 1959 107 April 20, 1959 108 May 4, 1959 109 May 18, 1959 109 May 18, 1959 110 June 1, 1959 111 June 15, 1959 112 June 29, 1959 113 July 13, 1959 113 July 13, 1959 Reports	PRICE
Re=entry capsules shall be delivered in accordance with the following schedule: USE NO. DELIVERY DATE February 9, 1959	
101 February 9, 1959 102 February 16, 1959 103 February 26, 1959 104 March 11, 1959 105 March 24, 1959 106 April 6, 1959 107 April 20, 1959 108 May 4, 1959 109 May 18, 1959 110 June 1, 1959 111 June 15, 1959 112 June 29, 1959 113 July 13, 1959 Reports	
As indicated in work Statement.	
LCCKHEED FURNISHED MATERIAL:	
Lockheed Aircraft Corporation, Missiles & Space Division, shall supply, or cause to be supplied, nineteen (19) cassettes to General Electric Company for performance hereunder.	
SHIPPING, PACKING & CRATING:	
All shipments shall be packed and crated in accordance with applicable specifications for the protection of delicate instrumentation in transit or in accordance with all carriers' teriffs. General Electric shall be responsible for the delivery of all shipments to the carriers' docks and forward them collect via bonded	
AT air freight, or as otherwise directed, to the address to be supplied by	

Sanitized Copy Approved for Release 2011/01/05: CIA-RDP89B00709R000200420007-4 CHANGED PURCHASE ORDER LOCKHEED AIRCRAFT CORPORATION MISSILE SYSTEMS DIVISION DATE 1/2/59 PAGE OF NUMBER Rev. 6/6/59 5 Sunnyvale, California REQUEST NO. B 1085, 49196 General Electric Company 3198 Chestnut Street Philadelphia, Pennsylvania QUANTITY DESCRIPTION UNIT FUNDS AUTHORIZED The total anticipated cost for the performance of the Work Statement hereunder is as follows: Total Estimated Cost \$4,508,800.00# Fixed Fee 267,508.00 Total Cost \$4.776.308.00 # - Plant arrangement in an amount not to exceed \$10,000.00 for the provision of special security procedures inherent in the performance of this task is included herein as allowable charges under this contract. USE OF GOVERNMENT FACILITIES AND EQUIPMENT It is understood that the cost proposal prepared to cover all work hereunder is contingent upon the use of Government facilities equipment items being available to General Electric under Facility Contracts Nos. AF 33(600)-32371 and DA-36-034-0RD-2581 on a "no charge for use on a non-interference basis." CORRESPONDENCE: All correspondence, including reports, invoices, bills of material, etc., which is transmitted via U. S. Government mail shall be addressed to STAT Palo Alto, California SUPERSESSION OF LETTER SUBCONTRACT: This definitive contract supersedes and cancels in its entirety the letter subcontract of intent, dated April, 29, 1958, as subsequently amended. All costs which have been incurred under the letter subcontract of intent in anticipation of this definitized contract, and which costs would have been considered allowable subsequent to the issuance hereof, shall be considered allowable hereunder, subject to the final acceptance by the Contracting Officer as allowable costs

LOCKHEED AIRCRAFT CORPORATION

MISSILE SYSTEMS DIVISION

Sunnyvale, California

CHANGED PURCHASE ORDER

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NUMBER 100-8

REQUEST NO.

B 1085, 49196

General Electric Company 3198 Chestnut Street Philadelphia. Pennsylvania

EW	QUANTITY	UNIT	DESCRIPTION	PRICE
			Authorization is hereby given for the use of overtime up to and including 25% of direct labor charges in performance of work hereunder as necessary to maintain the required delivery schedule. It is mandatory, however, that an advance estimate of anticipated overtime in any given month be supplied to through the correspondence channels indicated above at least one week in advance of the calendar month for which the estimate is prepared.	
			PROHIBITION AGAINST ASSIGNMENT	•
			Notwithstanding any other provisions of this subcontract, the Contractor shall not transfer, pledge or otherwise assign this contract, or any interest therein or any claim arising hereunder to any party or parties, bank, trust company or other financing institution, without first receiving the written authorization of Lockheed Aircraft Corporation.	
			SPECIAL SECURITY RESTRICTIONS	
			The Contractor shall not reveal (i) the specific nature or any details of the work being performed hereunder or (ii) any information whatsoever with respect to the department of the Government sponsoring this contract and the work thereunder except as the Contractor is directed or permitted to reveal such information by Lockheed and/or the Contracting Officer or by his duly authorized representative for security matters, and notwithstanding any clause or section of this contract to the contrary, the Contractor shall not interpret any clause or section of this contract as requiring or permitting divulgence of such information to any person, public or private, or to any officer or department of the Government without the express consent of the Contracting Officer or his duly authorized representative for security matters.	o n
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"LOCKHEED AIRCRAFT CORPORATION

MISSILE SYSTEMS DIVISION

Sunnyvale, California

CHANGED PURCHASE ORDER

DATE 1/2/59 PAGE | **Rev.**6/6/59 7

NUMBER

100-8

REQUEST NO.

General Electric Company 3198 Chestnut Street Philadelphia, Pennsylvania B 1085, 49196

ITEM	QUANTITY	UNIT	DESCRIPTION	PRICE
			COMMUNICATION WITH CONTRACTING OFFICER:	
AT (In all instances within the schedule or terms and conditions of this contract where Contractor is required to contact, communicate with, or direct documents, reports, invoices, etc., to or through the Contracting Officer, Contractor is hereby directed to refer all such matters in connection therewith to Lockheed, attention or disposition instructions or forwarding to the Contracting Officer, if required, with the exception of those matters dealing with the maintenance of proper security. Under no condition is Contractor to contact Contracting Officer or his duly appointed representative(s) other than on matters of security without the prior approval of Lockheed.	
			TERMS AND CONDITIONS	
			The terms and conditions attached hereto and made a part hereof are applicable to this purchase order, superseding and cancelling those terms and conditions on the reverse side of Page 1 of this purchase order. Article 33, entitled "Renegotiation," is deleted in its entirety and is not applicable hereunder. If any conflict exists or is determined to exist between the contents of any paragraph or sentence delineated on the face of this purchase order and the terms and conditions attached hereto, those typed on the face of this purchase order shall over-ride,	
			·	. •
			·	

ADDENDUM I

Additional agreements, modifications, clarifications, additions and/or deletions to various guide line documents applicable hereunder:

On 12 December 1958, it was agreed between

Lockheed Missiles and Space Division

(the then Lockheed Missile Systems Division) that the following would apply to the work performed under Purchase Order No. 100-8:

Agreement has been reached that the following exceptions to the applicable LMSD documents existed at the negotiation of 26-27 September 1958 and were included in the General Electric proposal of 13 September 1958, confirmed by General Electric letter 7 October 1958:

1. LMSD 6020C dated 19 September 1958

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- A. Schedule General Electric will accept the LMSD schedule Eng. schedule Plan 21700.20 Issue No. 2 dated 17 September 1958 in lieu of schedule proposed in General Electric letter dated 13 September 1958.
- B. G.S.E. Table 1 It is assumed that the list agreed upon at the negotiation of 26-27 September 1958 and confirmed by General Electric letter dated 13 October 1958 is acceptable.
- 2. LMSD 2950 Revision 3 dated 19 September 1958
 - A. Para. 3.7.3.3. Squibs and Other Pyrotechnic Devices

 General Electric has not provided for meeting this requirement in its entirety. Proposal was based upon Para. 3.7.3.3. of General Electric spec.

 NCS 1500 dated 12 September 1958.
 - B. Para 3.7.8 Recovery System
 Relative to parachute design, General Electric proposed that the following apply:

Air Snatch Loads - The loads applied to the parachute during air snatch shall not exceed 5 g's.

- 3. LMSD 2916 dated 24 March 1958 Revision 30 April 1958
 - A. Page 4 Paragraph 3.2.1.2.5

Other Atmospheric Elements

Requirement = Paragraph 3.2.1.2.5 states that: "Any of the probable combinations of the following atmospheric elements: smoke, wind, ozone, sand and dust, sunshine, salt and corrosive atmospheres."

Deviation - Full exception is taken to Specification LMSD 2916 on atmospheric elements.

Reason - The program permits no time to initiate a test program to determine if the equipment can operate in any of the probable combinations of the following atmospheric elements: smoke, wind, ozone, sand and dust, sunshine, salt and corrosive atmospheres.

B. Page 5 - Paragraph - 3.2.2.5.2

Shock (Given in Table III)

Requirement - As given in Table III of Specification LMSD 2916.

Deviation - Full exception is taken to Specification IMSD 2916 on Shock.

Reason - GE experience indicates that at our location no shock exists either at launch or main engine cut-off. Therefore, this requirement will not be observed.

C. Page 5 - Paragraph 3.2.2.5.3

Vibration

Requirements - Paragraph 3.2.2.5.3 states that: "Vibration given in Table III is a simusoidal sweep applied at a constant octave sweep rate which progresses from the lower frequency limit to the upper frequency limit in one-half (1/2) hour. Equipments having resonant frequencies between 1 cps and 15 cps shall be capable of withstanding simusoidal vibration at such resonant frequencies for a period of fifteen minutes at an amplitude of .5 inches (peak-to-peak).

Deviation - To insure that components can survive any possible sinusoidal inputs the vibration test levels will be:

5 cps to 13 cps ½ inch peak-to-peak
13 cps to 2000 cps 5 g peak

and the frequency shall be swept at a constant octave sweep rate once from 5 to 2000 cps in fifteen minutes. Except for those items which operate only during theorbital phase this means a total of 30 minutes. 15 non-operative and 15 operative, of excitation, in each direction.

Reason: The levels indicated in Specification LMSD 2916, paragraph 3.2.2.5.3 for our location are excessive. Measurements made on the IIA Booster frame at comparable stations indicate that little if any sinusoidal excitation exists and that the level of vibration through reaches at most a value of 1.5 g nms in the frequency band of 0 cps to 2000 cps (at launch and Max. g).

D. Page 5 - Paragraph - 3.2.2.5.4

White Noise Vibration

Requirement - Paragraph 3.2.25.4 states that: "Random Gaussian vibration of 15 to 2000 cps bandwidth for a period of 5 minutes at the maximum level and 10 minutes at the effective level for the values indicates in Table V."

Deviation - Full exception is taken to Specification IMSD 2916 on White Noise Vibration.

Reason - For the location of SARV vehicle, data from flights on the I&A Boosts indicate that the spectrum peak maximums are in the range .001g2/cps to .00kg2/cps. The level of the spectrum in general is in the region of .003g2/cps. The random test that accounts for the major portion of the excitation in a conservative fashion then will be a constant power spectral density of .0012/cps for fifteen minutes. The possibility of semi-discreet frequency peaks higher than above occurring has been more than adequately covered by the single frequency sinusoidal test.

E. Page 15 - 27 Sections 3.3 and 4.0

Requirement - Sections 3.3 and 4.0 specifies the test conditions and tests to be performed on all equipment.

Deviation - Sections 3.3 and 4.0 shall not be applicable. Refer to attachments I and 2, following this deviation which shall supersede the information in Sections 3.3 and 4.0.

Division

Reason - The test conditions and tests to be performed on SARV equipment as specified in attachments 1 and 2 are standard to General Electric Company and are more realistic of the conditions expected.

/s/ General Electric, MSVD STAT '/s, ckheed Missile System

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